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Sequence Listing could not be accepted due to errors.  
See attached Validation Report.  
If you need help call the Patent Electronic Business Center at (866)  
217-9197 (toll free).  
Reviewer: Anne Corrigan  
Timestamp: [year=2009; month=8; day=7; hr=8; min=1; sec=42; ms=458; ]  
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Reviewer Comments:

<210> 15  
<211> 3933  
<212> DNA  
<213> Pseudomonas sp. HJ-2 (phb locus)

<400> 15  
gagctcaatg cgcgccagga ctggtgtgcg aggacaacc gccgtcaccc ggggacattg  
60  
  
ttcacatccg caaagcgcca gagacttgcc cgctgttcca aggtcttaat taacgaggaa  
120  
  
tggttaatgg gtactgcgag caatgcggca cgtatagctc tggtcaccgg tggtatgggc  
180  
  
ggtatcggta cggcgatcag ccagcgctg catcgggatg gcttcaccgt ggtggtgggc  
240  
  
tgtaatccct actccagccg caaggcttcc tggattgcca cgcaactcga ggcgggcttt  
300  
  
cattccact gcatcgactg cgacatcacc gactgggata gcacccgcca ggccttcgac  
360  
  
atggtgcacg agactgtcgg cccgatcgat gtattggtca acaatgccgg catcaccgcg  
420  
  
gacggcactt tccgcaagat gtccccggaa aactggaagg cggtgatcga taccaatctc  
480

accggcctgt tcaacacaac caagcaggtc atcgagggca tgctggccaa gggctgggga  
540

cgcgatcatca acatctcctc aatcaatggc cagcgaggcc agttcgggca gaccaactac  
600

tccgcggncat aggctggcat tcatggcttc agcatggcct tggcccgcga ggtgagtggc  
660

aagggcgtga ccgtcaatac ggtttcccct ggctacatca agaccgacat gaccgcggcg  
720

attcgcccgg acatcctcga agacatgatt actggcattc ccgtgggccc tctcggccag  
780

cccgaggaga tcgcctcgat cgtggcctgg ctggcctccg atcagtctgc ctatgccacc  
840

ggcgccgact tctcggtgaa tggcgggcatg aacatgcagt gatgcgccat tcgcgccctc  
900

gctcagccat gacatgaggt gttccagatg atcgaagtcg ttatcgtcgc cgccactcgc  
960

accgccatcg gcgctttcca ggggagcctg gccggcactc ccgccgttga actgggcgcc  
1020

acggtgatcc gccgcctgct cgaacagacc gctctggata gcagtcaggt ggatgaagtg  
1080

atactcggcc acgtactcac cgccgggtgct ggcagaatac cgctcgccag gcanenggtc  
1140

Regarding the above <213> response; per 1.823 of the Sequence Rules, the only valid responses are the Genus species of the organism, "Artificial Sequence", or "Unknown". "Artificial Sequence" and "Unknown" require explanation in the <220>-<223> section; please give the source of the genetic material. Please just list the Genus species as the <213> response; put explanatory matter in the <220>-<223> section; please correct all similar sequences.

The n's at locations 608, 1134, and 1136 are not explained above.

<210> 16  
<211> 251  
<212> PRT  
<213> Pseudomonas sp. HJ-2 (NADPH-dependent acetoacetyl-CoA reductase  
(phbB) )

<400> 16  
Met Gly Thr Ala Ser Asn Ala Ala Arg Ile Ala Leu Val Thr Gly Gly  
1 5 10 15

Met Gly Gly Ile Gly Thr Ala Ile Ser Gln Arg Leu His Arg Asp Gly  
20 25 30

Phe Thr Val Val Val Gly Cys Asn Pro Tyr Ser Ser Arg Lys Ala Ser  
35 40 45

Trp Ile Ala Thr Gln Leu Glu Ala Gly Phe His Phe His Cys Ile Asp  
50 55 60

Cys Asp Ile Thr Asp Trp Asp Ser Thr Arg Gln Ala Phe Asp Met Val  
65 70 75 80

His Glu Thr Val Gly Pro Ile Asp Val Leu Val Asn Asn Ala Gly Ile  
85 90 95

Thr Arg Asp Gly Thr Phe Arg Lys Met Ser Pro Glu Asn Trp Lys Ala  
100 105 110

Val Ile Asp Thr Asn Leu Thr Gly Leu Phe Asn Thr Thr Lys Gln Val  
115 120 125

Ile Glu Gly Met Leu Ala Lys Gly Trp Gly Arg Val Ile Asn Ile Ser  
130 135 140

Ser Ile Asn Gly Gln Arg Gly Gln Phe Gly Gln Thr Asn Tyr Ser Ala  
145 150 155 160

Xaa Lys Ala Gly Ile His Gly Phe Ser Met Ala Leu Ala Arg Glu Val  
165 170 175

Please correct the above <213> response to just indicate the Genus species of the organism; place explanatory matter in the <220>-<223> section. Also, the above <213> response exceeds the Sequence Rules' required 72-character line limit. The "Xaa" at location 161 is not explained above.

<210> 17  
<211> 392  
<212> PRT  
<213> Pseudomonas sp. HJ-2 (beta-ketothiolase (phbA))

<400> 17  
Met Ile Glu Val Val Ile Val Ala Ala Thr Arg Thr Ala Ile Gly Ala  
1 5 10 15  
Phe Gln Gly Ser Leu Ala Gly Thr Pro Ala Val Glu Leu Gly Ala Thr  
20 25 30  
Val Ile Arg Arg Leu Leu Glu Gln Thr Ala Leu Asp Ser Ser Gln Val  
35 40 45  
Asp Glu Val Ile Leu Gly His Val Leu Thr Ala Gly Ala Gly Arg Ile  
50 55 60  
Pro Leu Ala Arg Xaa Xaa Val Ile Ala Gly Leu Pro His Ala Val Pro  
65 70 75 80

Please correct the above <213> response. Also, the "Xaa's" at locations 69-70 are not explained above.

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Application No: 10583840 Version No: 2.0

**Input Set:****Output Set:**

**Started:** 2009-07-22 14:17:12.979  
**Finished:** 2009-07-22 14:17:15.807  
**Elapsed:** 0 hr(s) 0 min(s) 2 sec(s) 828 ms  
**Total Warnings:** 18  
**Total Errors:** 6  
**No. of SeqIDs Defined:** 18  
**Actual SeqID Count:** 18

Error code	Error Description
W 213	Artificial or Unknown found in <213> in SEQ ID (1)
W 213	Artificial or Unknown found in <213> in SEQ ID (2)
W 213	Artificial or Unknown found in <213> in SEQ ID (3)
W 213	Artificial or Unknown found in <213> in SEQ ID (4)
W 213	Artificial or Unknown found in <213> in SEQ ID (5)
W 213	Artificial or Unknown found in <213> in SEQ ID (6)
W 213	Artificial or Unknown found in <213> in SEQ ID (7)
W 213	Artificial or Unknown found in <213> in SEQ ID (8)
W 213	Artificial or Unknown found in <213> in SEQ ID (9)
W 213	Artificial or Unknown found in <213> in SEQ ID (10)
W 213	Artificial or Unknown found in <213> in SEQ ID (11)
W 402	Undefined organism found in <213> in SEQ ID (12)
W 402	Undefined organism found in <213> in SEQ ID (13)
W 402	Undefined organism found in <213> in SEQ ID (14)
W 402	Undefined organism found in <213> in SEQ ID (15)
E 342	'n' position not defined found at POS: 608 SEQID(15)
E 342	'n' position not defined found at POS: 1134 SEQID(15)
E 342	'n' position not defined found at POS: 1136 SEQID(15)
W 402	Undefined organism found in <213> in SEQ ID (16)
E 341	'Xaa' position not defined SEQID (16) POS (161)

**Input Set:**

**Output Set:**

**Started:** 2009-07-22 14:17:12.979  
**Finished:** 2009-07-22 14:17:15.807  
**Elapsed:** 0 hr(s) 0 min(s) 2 sec(s) 828 ms  
**Total Warnings:** 18  
**Total Errors:** 6  
**No. of SeqIDs Defined:** 18  
**Actual SeqID Count:** 18

Error code	Error Description
W 402	Undefined organism found in <213> in SEQ ID (17)
E 341	'Xaa' position not defined SEQID (17) POS (69)
E 341	'Xaa' position not defined SEQID (17) POS (70)
W 402	Undefined organism found in <213> in SEQ ID (18)

<110>	LG CHEM, LTD.	
<120>	Poly(3-hydroxyalkanoate) Block Copolymer Having Shape Memory Effect	
<130>	LC05PCT042	
<140>	10583840	
<141>	2009-07-22	
<150>	KR 10-2005-0059907	
<151>	2005-07-04	
<160>	18	
<170>	KopatentIn 1.71	
<210>	1	
<211>	18	
<212>	DNA	
<213>	Artificial Sequence	
<220>		
<223>	Choi3 (PCR Primer)	
<400>	1	
	ccgccstgsa tcaagtac	18
<210>	2	
<211>	20	
<212>	DNA	
<213>	Artificial Sequence	
<220>		
<223>	Choi4 (PCR Primer)	
<400>	2	
	gytsgtgsgyg tcyycgttcc	20
<210>	3	
<211>	24	
<212>	DNA	
<213>	Artificial Sequence	
<220>		
<223>	HJ-PHB-N (PCR Primer)	
<400>	3	
	caccatgctg agttgcgctc tagc	24
<210>	4	

<211> 27  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> HJ-PHB-C (PCR Primer)

<400> 4  
tcadmsyttt acrtarcgkc ctggygc 27

<210> 5  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> SCL-1 (PCR Primer)

<400> 5  
gatcgatacc aatctcaccg 20

<210> 6  
<211> 21  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> SCL-2 (PCR Primer)

<400> 6  
caaagccagt ggttcgacgt a 21

<210> 7  
<211> 19  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> SCL-3 (PCR Primer)

<400> 7  
ctgctgaaac tgttggagc 19

<210> 8  
<211> 47  
<212> DNA  
<213> Artificial Sequence

<220>



<223> SD-BA-N (PCR Primer)

<400> 8  
gggggtacca ataaggagat atacatatgg gtactgcgag caatgcg 47

<210> 9  
<211> 28  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> BA-C (PCR Primer)

<400> 9  
cccactagtt cagcgctcga tggccagc 28

<210> 10  
<211> 28  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> SD-phbC-N (PCR Primer)

<400> 10  
gggcatatga ccagaagaa caacagcg 28

<210> 11  
<211> 39  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> phbC-C (PCR Primer)

<400> 11  
cccactagtt cadmscttya crtaacgtcc tggcgcygc 39

<210> 12  
<211> 756  
<212> DNA  
<213> Pseudomonas sp. HJ-2

<220>  
<221> variation  
<222> (482)  
<223> n=A, C, G or T

<400> 12

atgggtactg cgagcaatgc ggcacgtata gctctgggtca ccggtggtat gggcggtatc 60  
ggtagggcga tcagccagcg cctgcatcgg gatggcttca ccgtggtggt gggctgtaat 120  
ccctactcca gccgcaaggc ttcttggatt gccacgcaac tcgaggcggg ctttcacttc 180  
cactgcatcg actgcgacat caccgactgg gatagcacc gccaggcctt cgacatggtg 240  
cacgagactg tcggcccgat cgatgtattg gtcaacaatg ccggcatcac ccgcgacggc 300  
actttccgca agatgtcccc ggaaaactgg aaggcggtga tcgataccaa tctcaccggc 360  
ctgttcaaca caaccaagca ggtcatcgag ggcatgctgg ccaagggctg gggacgcgtc 420  
atcaacatct cctcaatcaa tggccagcga ggccagttcg ggcagaccaa ctactccgcg 480  
gncaaggctg gcattcatgg cttcagcatg gccttggccc gcgaggtgag tggcaagggc 540  
gtgaccgtca atacggtttc ccctggctac atcaagaccg acatgaccgc ggcgattcgc 600  
ccggacatcc tcgaagacat gattactggc attcccgtgg gccgtctcgg ccagcccgag 660  
gagatgcct cgatcgtggc ctggctggcc tccgatcagt ctgcctatgc caccggcgcc 720  
gacttctcgg tgaatggcgg catgaacatg cagtga 756

<210> 13  
<211> 1179  
<212> DNA  
<213> Pseudomonas sp. HJ-2

<220>  
<221> variation  
<222> (207)  
<223> n=A, C, G or T

<220>  
<221> variation  
<222> (209)  
<223> n=A, C, G or T

<400> 13  
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ctggccggca ctcccgccgt tgaactgggc gccacgggtga tccgccgcct gctcgaacag 120  
accgctctgg atagcagtca ggtggatgaa gtgatactcg gccacgtact caccgccggt 180  
gctggcagaa taccgctcgc caggcaneng gtcatcgccg gcctgccaca cgccgtaccg 240  
gcgatgacc tgaacaaggt ctgtggctcc ggctgaaag ccctgcacct gggcgcccag 300  
gccatccgct gtggcgatgc cgagggtggtg attgccggtg gcatggagaa catgagcctg 360  
tcgtcctatg tcttgcccaa ggcccgcacc ggctgcgca tgggccacgc gcagctggtc 420

gacagcatga tcgtcgacgg cctgtgggac gccttcaacg actaccacat ggggatcact 480  
gccgagaacc tggtagacaa gtacggcatc agccgcgaag cccaggacga attcgccgcc 540  
gcctcgcagc agaaagccgt ggccgccatc gagaccggtc gcttccgcga cgagatcgtc 600  
ccggtgagca ttccgcagcg caagggcgag gcgctgagct tcgacaccga cgaacagcca 660  
cgcgccggca ccaccgccga gtcgctgggc aagctgaaac cggccttcaa gaacgacggc 720  
agcgttactg ccggcaacgc ttccagtctc aacgacggcg ccgccgcggc actgctgatg 780  
agtgcggcaa aggccgcagc gcttggctctg ccagtgctgg cgaagatcgc cgcctacgcc 840  
aatgccggcg tcgaccggc gatcatgggt atcggaccgg tgtcggccac ccgcagttgc 900  
ctggagaagg cgggctggag tctggcagag ctggatctga tcgaggccaa tgaagccttc 960  
gcggcccagg ccctggccgt gggtcaggag ctgggctggg atgctggcag ggtaaacgtc 1020  
aacggcggcg ccatcgccct cggccacccc attggcgctt ccggctgccg cgtactggtc 1080  
agcctgctgc atgaaatgct caggcgcgac gcgaaaaaag gcctcgctac cctgtgtatc 1140  
ggtggcggcc agggcgtggc gctggccatc gagcgtga 1179

<210> 14  
<211> 1701  
<212> DNA  
<213> Pseudomonas sp. HJ-2 (SCL-PHA synthase (phaC))

<400> 14  
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ttcgtcctgc agcaactgcg cttatacgtg gcgcaaaata cttggttcag cgggcacgac 120  
caaagccagt ggttcgacgt acctgtcgag gcgttggagc aactgcaggc ggactaccaa 180  
caacagtggg ccgaacttgg ccagcaattg ctgagctgcc agccgttcgc attcagcgat 240  
cgtcgcttcg ccagtggcaa ctggagcgaa ccgctgttcg gttccctggc tgccttctac 300  
ctgctgaatt ccggtttcct gctgaaactg ttggagcttc tccccatcga tgagcagaag 360  
ccccgccagc gcttgcggtta cttgatcgag caagcgattg ccgcaagcgc cccaagtaac 420  
tttctgctga gcaaccctga tgccctgcaa cgcctagtgg aaaccaggg cgccagccta 480  
ctaagtggcc tgttgcatct tgccagtgac ctgcaggcag gcaagttgcg ccaatgtgac 540  
ttgggcgatt tcgaagtcgg cgtgaatctg gccaccaccc ctggtgccgt ggtactggaa 600  
accctctgt tccagctgat ccagtattcg ccgctcagcg aaacgcaata ccagcggccg 660  
atattcatgg tcccgcctg gatcaacaag tactacatcc ttgacctcg gcccgaaaac 720

tctctaatacc gtcactctact ggagcgcaggc catcaagttt ttctgatgtc ctggcgcaac 780

ttcactcagg aacaggccga catcacctgg gagcagatca tccaggacgg agtgatcagc 840

gccctgcgca ctaccegggc catcagtggg gagcgccacc tgaactgttt gggtttctgc 900

atcggcggca ccatgctgag ttgcgctcta gcggtgctgg cagcgcggtg cgaccaggac 960

attgccagcc tgagtctatt cgccactttt cttgactacc ttgataccgg gccgatcagc 1020

gtcttcgtcg atgagcaact ggtggcctac cgtgagcgca ccatcgggtg ccatgggtggc 1080

aaatgtggcc tgttccgcgg tgaggacatg ggcaatacct tctccctgct gcggcccaac 1140

gagctgtggg ggaactacaa cgtagacaaa tatctcaagg ggcagaagcc gctggctctg 1200

ggtctactgt tctggaacaa cgacagcacc aatctgccgg ggccctgta ttgctggtat 1260

ctgcgccaca cctacctgca gaacgacctc aaatcggggg agttggatct gtgcggcgtc 1320

aagttggatc tgcggggccat agacgcacca gcctacatct tgggaacca tgacgaccac 1380

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cattactggg tcaatgaaca catagcgccg gtagctgacg actggctgca gggagctcag 1560

cagcattccg gcagttggtg gggtgactgg ttcgcctggg tgaccggcta tgccggccca 1620

cgcaagcctg ccatcactat gctgggcagt gccgagtacc ccccgcttga acatgcgcca 1680

ggacgttatg tgaagctatg a 1701

<210> 15

<211> 3933

<212> DNA

<213> Pseudomonas sp. HJ-2 (phb locus)

<400> 15

gagctcaatg cgcgccagga ctggtgtgcg aggacaaccc ggcgtcaccc ggggacattg 60

ttcacatccg caaagcgcca gagacttgcc cgctgttcca aggtcttaat taacgaggaa 120

tggttaatgg gtactgcgag caatgcggca cgtatagctc tggtcaccgg tggatatggg 180

ggtatcggta cggcgatcag ccagcgctg catcgggatg gcttcaccgt ggtgggtggg 240

tgtaatccct actccagccg caaggcttcc tggattgcca cgcaactcga ggcgggcttt 300

cacttccact gcatcgactg cgacatcacc gactgggata gcacccgcca ggccttcgac 360

atggtgcacg agactgtcgg cccgatcgat gtattgggtca acaatgccgg catcacccgc 420

gacggcactt tccgcaagat gtccccggaa aactggaagg cggtgatcga taccaatctc 480

accggcctgt tcaacacaac caagcaggtc atcgagggca tgctggccaa gggctgggga	540
cgcgatcatca acatctctc aatcaatggc cagcgaggcc agttcgggca gaccaactac	600
tccgcggnga aggctggcat tcatggcttc agcatggcct tggcccgcga ggtgagtggc	660
aagggcgtga cegtcaatac ggtttccctt ggctacatca agaccgacat gaccgcggcg	720
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cccgaggaga tcgcctcgat cgtggccttg ctggcctccg atcagtctgc ctatgccacc	840
ggcgccgact tctcgggtgaa tggcgggcatg aacatgcagt gatgcgccat tcgcgccttc	900
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accgccatcg gcgctttcca ggggagcctg gccggcactc ccgccgttga actgggcgcc	1020
acggtgatcc gccgcctgct cgaacagacc gctctggata gcagtcaggt ggatgaagtg	1080
atactcggcc acgtactcac cgccggtgct ggcagaatac cgctcgccag gcancnggtc	1140
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ctgaaagccc tgcacctggg cgcccaggcc atccgctgtg gcgatgccga ggtggtgatt	1260
gccggtggca tggagaacat gagcctgtcg tcctatgtcc tgcccaaggc ccgcaccggc	1320
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ttcaacgact accacatggg gatcactgcc gagaacctgg tagacaagta cggcatcagc	1440
cggaagccc aggacgaatt cgccgccgcc tcgcagcaga aagccgtggc cgccatcgag	1500
accggtcgct tccgcgacga gatcgtcccg gtgagcattc cgcagcgcaa gggcgaggcg	1560
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gacggcgccg ccgcggtact gctgatgagt gcggcaaagg ccgcagcgct tggctctgcca	1740
gtgctggcga agatcgccgc ctacgccaat gccggcgctc acccggcgat catgggtatc	1800
ggaccggtgt cggccacccg cagttgcctg gagaaggcgg gctggagtct ggcagagctg	1860
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cgctgagtga cgctttcgcg actctgccg acgtgcccc ctgcaccgc accgccaggc	2160

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cctggagacg ccatggacaa cggacacacc tttgctcact actggtcggg tcaggcgccc	2280
ttcatcgcca gcttcgtcct gcagcaactg cgcttatacg tggcgcaaaa tacttggttc	2340
agcgggcacg accaaagcca gtggttcgac gtacctgtcg aggcgttgga gcaactgcag	2400
gcggactacc aacaacagtg ggccgaactt ggccagcaat tgctgagctg ccagccgttc	2460
gcattcagcg atcgtcgctt cgccagtggc aactggagcg aaccgctgtt cggttccctg	2520
gctgccttct acctgctgaa ttccggtttc ctgctgaaac tgttggagct tctccccatc	2580
gatgagcaga agccccgcca gcgcttgcggt tacttgatcg agcaagcgat tgccgcaagc	2640
gccccaaagta actttctgct gagcaaccct gatgccctgc aacgcctagt ggaaaccag	2700
ggcgccagcc tactaagtgg cctgttgcat cttgccagtg acctgcaggc aggcaagttg	2760
cgccaatgtg acttggggcg tttcgaagtc ggcgtgaatc tggccaccac ccctgggtgcc	2820
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gggccccgaaa actctctaata ccgtcatcta ctggagcgag gccatcaagt ttttctgatg	3000
tcctggcgca acttcactca ggaacaggcc gacatcacct gggagcagat catccaggac	3060
ggagtgatca gcgccctgcg cactaccggg gccatcagtg gtgagcgcca cctgaactgt	3120
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ggcgaccagg acattgccag cctgagtcta ttcgccactt ttcttgacta ccttgatacc	3240
gggccgatca gcgtcttcgt cgatgagcaa ctggtggcct accgtgagcg caccatcgggt	3300
ggccatggtg gcaaatgtgg cctgttcgcg ggtgaggaca tgggcaatac cttctccctg	3360
ctgcggccca acgagctgtg gtggaactac aacgtagaca aatatctcaa ggggcagaag	3420
ccgctggctc tgggtctact gttctggaac aacgacagca ccaatctgcc ggggccctg	3480
tattgctggt atctgcgcca cacctacctg cagaacgacc tcaaatcggg ggagttggat	3540
ctgtgcggcg tcaagttgga tctgcgggcc atagacgcac cagcctacat cttgggaacc	3600
catgacgacc acatcgtgcc ctggcgaagc gcctatgcca gcacggaatt gctgggaggt	3660
ccaaagcgct ttgtcctcgg cgctccggc cacatcgccg gggtgatcaa cccgccagat	3720
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3933

<210> 16  
<211> 251  
<212> PRT  
<213> Pseudomonas sp. HJ-2 (NADPH-dependent acetoacetyl-CoA reductase (phbB))

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Phe Thr Val Val Val Gly Cys Asn Pro Tyr Ser Ser Arg Lys Ala Ser  
35 40 45  
  
Trp Ile Ala Thr Gln Leu Glu Ala Gly Phe His Phe His Cys Ile Asp  
50 55 60  
  
Cys Asp Ile Thr Asp Trp Asp Ser Thr Arg Gln Ala Phe Asp Met Val  
65 70 75 80  
  
His Glu Thr Val Gly Pro Ile Asp Val Leu Val Asn Asn Ala Gly Ile  
85 90 95  
  
Thr Arg Asp Gly Thr Phe Arg Lys Met Ser Pro Glu Asn Trp Lys Ala  
100 105 110  
  
Val Ile Asp Thr Asn Leu Thr Gly Leu Phe Asn Thr Thr Lys Gln Val  
115 120 125  
  
Ile Glu Gly Met Leu Ala Lys Gly Trp Gly Arg Val Ile Asn Ile Ser  
130 135 140  
  
Ser Ile Asn Gly Gln Arg Gly Gln Phe Gly Gln Thr Asn Tyr Ser Ala  
145 150 155 160  
  
Xaa Lys Ala Gly Ile His Gly Phe Ser Met Ala Leu Ala Arg Glu Val  
165 170 175  
  
Ser Gly Lys Gly Val Thr Val Asn Thr Val Ser Pro Gly Tyr Ile Lys  
180 185 190  
  
Thr Asp Met Thr Ala Ala Ile Arg Pro Asp Ile Leu Glu Asp Met Ile  
195 200 205  
  
Thr Gly Ile Pro Val Gly Arg Leu Gly Gln Pro Glu Glu Ile Ala Ser  
210 215 220  
  
Ile Val Ala Trp Leu Ala Ser Asp Gln Ser Ala Tyr Ala Thr Gly Ala  
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Asp Phe Ser Val Asn Gly Gly Met Asn Met Gln  
245 250

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<210>      17
<211>      392
<212>      PRT
<213>      Pseudomonas sp. HJ-2 (beta-ketothiolase (phbA))

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Phe  Gln  Gly  Ser  Leu  Ala  Gly  Thr  Pro  Ala  Val  Glu  Leu  Gly  Ala  Thr
          20              25              30

Val  Ile  Arg  Arg  Leu  Leu  Glu  Gln  Thr  Ala  Leu  Asp  Ser  Ser  Gln  Val
          35              40              45

Asp  Glu  Val  Ile  Leu  Gly  His  Val  Leu  Thr  Ala  Gly  Ala  Gly  Arg  Ile
  50              55              60

Pro  Leu  Ala  Arg  Xaa  Xaa  Val  Ile  Ala  Gly  Leu  Pro  His  Ala  Val  Pro
  65              70              75              80

Ala  Met  Thr  Leu  Asn  Lys  Val  Cys  Gly  Ser  Gly  Leu  Lys  Ala  Leu  His
          85              90              95

Leu  Gly  Ala  Gln  Ala  Ile  Arg  Cys  Gly  Asp  Ala  Glu  Val  Val  Ile  Ala
          100             105             110

Gly  Gly  Met  Glu  Asn  Met  Ser  Leu  Ser  Ser  Tyr  Val  Leu  Pro  Lys  Ala
          115             120             125

Arg  Thr  Gly  Leu  Arg  Met  Gly  His  Ala  Gln  Leu  Val  Asp  Ser  Met  Ile
          130             135             140

Val  Asp  Gly  Leu  Trp  Asp  Ala  Phe  Asn  Asp  Tyr  His  Met  Gly  Ile  Thr
          145             150             155             160

Ala  Glu  Asn  Leu  Val  Asp  Lys  Tyr  Gly  Ile  Ser  Arg  Glu  Ala  Gln  Asp
          165             170             175

Glu  Phe  Ala  Ala  Ala  Ser  Gln  Gln  Lys  Ala  Val  Ala  Ala  Ile  Glu  Thr
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Gly  Arg  Phe  Arg  Asp  Glu  Ile  Val  Pro  Val  Ser  Ile  Pro  Gln  Arg  Lys
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Gly  Glu  Ala  Leu  Ser  Phe  Asp  Thr  Asp  Glu  Gln  Pro  Arg  Ala  Gly  Thr
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Thr  Ala  Glu  Ser  Leu  Gly  Lys  Leu  Lys  Pro  Ala  Phe  Lys  Asn  Asp  Gly
          225             230             235             240

Ser  Val  Thr  Ala  Gly  Asn  Ala  Ser  Ser  Leu  Asn  Asp  Gly  Ala  Ala  Ala
          245             250             255

Val  Leu  Leu  Met  Ser  Ala  Ala  Lys  Ala  Ala  Ala  Leu  Gly  Leu  Pro  Val

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